



Fig. 13.1. A Wavelet Tour of Signal Processing, 3<sup>rd</sup> ed. The singular spectrum  $|\hat{u}[k]|^2$  of a low-pass filter decreases to zero at high frequencies. The relative variation of  $|\hat{u}[k]|^{-2}$  is not large over the frequency support of each wavelet and mirror wavelet of a mirror wavelet basis.